

Notice of Allowability

Application No.

10/815,496

Examiner

Heather A. Doty

Applicant(s)

HSUAN ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment dated 6/12/2006.
2. ☒ The allowed claim(s) is/are 1-4,6,7,10-37,39,40,42,43 and 46-66.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


CARL WHITEHEAD, JR.
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Randy Tung on July 20, 2006.

The application has been amended as follows:

- In claim 1, lines 7-10, the phrase "a second fold formed in the first flexible appendage so that a portion of the bottom face of the first flexible appendage underlying the first semiconductor device also overlies the top face of the body portion" has been deleted.
- In claim 6, line 1, the number "5" has been deleted and the number --1-- inserted therefor.
- In claim 7, line 1, the number "5" has been deleted and the number --1-- inserted therefor.
- In claim 10, line 1, the number "5" has been deleted and the number --1-- inserted therefor.
- In claim 39, line 1, the number "38" has been deleted and the number --37-- inserted therefor.
- In claim 40, line 1, the number "38" has been deleted and the number --37-- inserted therefor.

- In claim 42, line 1, the number "41" has been deleted and the number --37-- inserted therefor.
- In claim 43, line 1, the number "41" has been deleted and the number --37-- inserted therefor.
- In claim 46, line 1, the number "41" has been deleted and the number --37-- inserted therefor.

Election/Restrictions

Since independent claims 1 and 37 are in condition for allowance, non-elected claims 4, 23, 24, 26-35, 40, 59, 60, and 62-66, which depend from either claim 1 or claim 37, are hereby rejoined.

Allowable Subject Matter

Claims 1-4, 6, 7, 10-37, 39, 40, 42, 43, and 46-66 are allowed.

The following is an examiner's statement of reasons for allowance: Prior art does not teach or suggest, in combination with the other claimed limitations, that the second alignment key comprises a raised feature spaced a distance from a side edge of the first semiconductor device, and the second alignment key comprises a raised feature spaced a distance from a side edge of the second semiconductor device, wherein the second distance is shorter than the first distance. Shibata et al., the closest prior art of record, teaches that the distances between the edges of the semiconductor devices and the alignment keys are equal, and there is no motivation to combine this teaching with

other relevant prior art to arrive at the invention as claimed in independent claims 1 and 37.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather A. Doty, whose telephone number is 571-272-8429. The examiner can normally be reached on M-F, 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr., can be reached at 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

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Customer Service Representative or access to the automated information system, call
800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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